

ABSTRACT

The present invention is concerned with severing tubing, pipe or casing in an oil or gas well, and more particularly with a system and method for making and using a multi-point initiation explosive device that produces an enhanced pressure wave for severing tubing, pipe or casing in an oil or gas well. One embodiment uses at least two opposed initiators to initiate a column of explosive material from opposite ends, thereby generating opposing pressure waves propagating toward a midpoint between the initial initiators and a shaped-charge assembly with a liner located at the midpoint that initiates immediately prior to the arrival of the opposing pressure waves and that is intended to form an initial, fast moving jet to pre-score the target pipe prior to the arrival of the pressure pulse propagating from the initial detonations.